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What is Claimed:

- 1. A method of accelerating catalyst aging comprising the step of exposing a catalyst material to a continuous flow of a gaseous composition, the gaseous composition comprising a substance which deactivates the catalyst material.
- 2. The method of claim 1 wherein the catalyst material comprises at least one material selected from the group consisting of base metals and oxides thereof; alkaline earth-based adsorbents; platinum metal group catalysts and oxides thereof; carbon adsorbents; silica adsorbents; and zeolite adsorbents.
- 3. The method of claim 2 wherein the catalyst material comprises at least one material selected from the group consisting of manganese, cobalt, iron and nickel, and oxides thereof; Ca-, Ba- and Sr-based adsorbents; Pt-, Pd- and Rh-based catalysts; carbon adsorbents; silica adsorbents; and zeolite adsorbents.
- 20 4. The method of claim 3 wherein the catalyst material comprises cryptomelane.
 - 5. The method of claim 1 wherein the gaseous composition comprises ambient air.
 - 6. The method of claim 1 wherein the gaseous composition comprises an aerosol.
- 7. The method of claim 1 wherein the gaseous composition comprises particulate matter.
 - 8. The method of claim 4 wherein the gaseous composition comprises ambient air.
- 35 9. The method of claim 8 wherein the exposing step lasts at least two weeks.
 - 10. A method of accelerating catalyst aging comprising the step of exposing a catalyst material to a substantially continuous flow of a gaseous composition, the gaseous composition comprising a substance which deactivates the catalyst material.
 - 11. The method of claim 10 wherein the catalyst material comprises at least one material selected from the group consisting of base metals and oxides thereof; alkaline earth-based adsorbents; platinum metal group

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catalysts and oxides thereof; carbon adsorbents; silica adsorbents; and zeolite adsorbents.

- 12. The method of claim 11 wherein the catalyst material comprises at least one material selected from the group consisting of manganese, cobalt, iron and nickel, and oxides thereof; Ca-, Ba- and Sr-based adsorbents; Pt-, Pd- and Rh-based catalysts; carbon adsorbents; silica adsorbents; and zeolite adsorbents.
- 13. The method of claim 12 wherein the catalyst material comprises cryptomelane.
 - 14. The method of claim 10 wherein the gaseous composition comprises ambient air.
 - 15. The method of claim 10 wherein the gaseous composition comprises an aerosol.
 - 16. The method of claim 10 wherein the gaseous composition comprises particulate matter.
 - 17. The method of claim 13 wherein the gaseous composition comprises ambient air.
- 18. The method of claim 17 wherein the exposing step lasts at least two weeks.